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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,576	12/04/2001	Siegfried Dachtler	TAIG-94	8144
7:	590 06/11/2003			
Peter L. Costas			EXAMINER	
Pepe & Hazard 225 Asylum St	reet		JOERGER, KAITLIN S	
Hartford, CT	00012		ART UNIT	PAPER NUMBER
			3653	
			DATE MAILED: 06/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/005,576	DACHTLER, SIEGFRIED				
Office Action Summary	Examiner	Art Unit				
z.	Kaitlin S Joerger	3653				
The MAILING DATE of this communica						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNIC. Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) of the first of the period for reply is specified above, the maximum statut. Failure to reply within the set or extended period for reply will. Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b). Status	ATION. 37 CFR 1.136(a). In no event, however, ication. days, a reply within the statutory minimum ory period will apply and will expire SIX. I. by statute, cause the application to be.	may a reply be timely filed m of thirty (30) days will be considered timely. (6) MONTHS from the mailing date of this communication.				
1) Responsive to communication(s) filed	1) Responsive to communication(s) filed on <u>04 December 2001</u> .					
2a) This action is FINAL . 2b)⊠ This action is non-final					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,5-12 and 16-19</u> is/are rejected.						
7)⊠ Claim(s) <u>2-4 and 13-15</u> is/are objected to.						
8) Claim(s) are subject to restrictio	n and/or election requireme	nt.				
Application Papers						
9)⊠ The specification is objected to by the E	xaminer.					
10)⊠ The drawing(s) filed on <u>11 February 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the application from the Internation * See the attached detailed Office action for	onal Bureau (PCT Rule 17.2	(a)).				
14) Acknowledgment is made of a claim for o	domestic priority under 35 U.	S.C. § 119(e) (to a provisional application).				
a) The translation of the foreign langu 15) Acknowledgment is made of a claim for the state of the foreign language.	- , ,,					
Attachment(s)	_					
I) ⊠ Notice of References Cited (PTO-892) ☑ Notice of Draftsperson's Patent Drawing Review (PTO- ☑ Information Disclosure Statement(s) (PTO-1449) Pape	-948) 5) 🔲 Not	erview Summary (PTO-413) Paper No(s) ice of Informal Patent Application (PTO-152) er: .				
Patent and Trademark Office FO-326 (Rev. 04-01)	Office Action Summary	Part of Paper No. 7				

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DETAILED ACTION

Specification

The disclosure is objected to because of the following informalities: On page 7, line 9 of the specification the suction holders are mistakenly referred to by reference number 4, instead of reference number 5.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5-9, 12, 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiiki.

Shiiki teaches a sheet lifter and separator for lifting and separating the uppermost sheet of a stack of workpieces comprising:

A lifter including a frame, which is made up of beam 9 and vacuum hanger members, 11, and a multiplicity of suction holder, 13A-13C, with surface at their lower ends to engage the topmost sheet, wherein one of said suction holder, 13A, is located adjacent to one side of the frame, see column 4, lines 43+ and figures 1B and 2A.

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Shiiki further teaches a vacuum source to draw air from said holders, wherein the vacuum hanger members, 11, also act as a conduit means, see column 6, lines 10+. Shiiki also discusses in the above mentioned column 6, and depicts in figure 2A, that said suction holder, 13A, which is located adjacent to one side is operable to bend the edge portion of the sheet adjacent to said one side upwardly from the plane defined by the working surface of the other suction holders, which are space further inwardly from the one side.

Figure 2A of Shiiki further teaches that the holder, 13A, is uncoupled from the other holder placed on the outermost workpiece, and that the holder 13A is disposed on a support structure that is moveable relative to the lifter frame. Wherein the support structure is a separator frame pivotally supported on said lifter frame, along an axis parallel to the one side of the lifter frame, and said one suction holder 13A is pivoted from a position in which it is aligned with the suction holders on said lifter frame to a position upwardly therefrom.

Shiiki also teaches a drive means for moving said frame upwardly and downwardly so as to position the suction holders to grip the topmost sheet of the stack and lift it upwardly. He further teaches a means to drive the separator holders against the topmost sheet to engage and bend the topmost sheet to cause it to separate from the sheet adhered to its lower surface. Lastly, while Shiiki does not specifically discuss a control means for controlling the operation of the lifter apparatus it is obvious that the operation of such a machine would require a control means, even if no such one is mentioned. This point is made clear in column 6, lines 10+ when Shiiki discusses the difference in operation of the driving means when there is a thin sheet set to be loaded versus a thick sheet. Obviously some sort of control means must control the difference in operation.

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In claim 9 and column 3 lines 10+ Shiiki further discusses the use of a separator nozzle connected to a source of pressurized air, whereby the pressurized air is released to facilitate separation of the uppermost sheet.

Claims 10, 11, 18, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shiiki in view of Stephan.

Shiiki does not specifically claim that the pressurized air is released from the nozzle in pulses. Stephan, however, dose teach this in column 5, lines 1+. It would have been obvious to one of ordinary skill in the art to include a specific control means to release the pressurized air in pulses so that it is released only when necessary, and thereby increasing the efficiency of the separator.

Shiiki also does not specifically teach a multiplicity of separator nozzles in a staggered relationship along the one side of the frame assigned to the suction separators. However, it would have been obvious to include a separator nozzles in the vicinity of every vacuum hanger member, which holds the suction separators, to increase the efficiency of the pressurized air nozzle in separating the topmost workpiece from the second workpiece which is adhered below.

Allowable Subject Matter

Claims 2-4 and 13-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Claims 2 and 13 both claim a specific configuration of the suction holder on the separator

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wherein there are two holders one spaced close to the outer side and one spaced further inward

from the outer side, and further where the suction holders have compressible sleeves provided on

their base. The claims further state that the sleeve of the outer holder more compressible than the

sleeve in the inner holder to provide a differential in vertical height to said working surface. Due

to the specificity of these to claims the examiner was unable to find prior art that taught such a

design, therefore it was determined that the claims and the ones that depend therefrom would be

allowable if rewritten in independent form including all the limitations of the base claim.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Kaitlin S Joerger whose telephone number is 703-305-8503. The

examiner can normally be reached on Monday - Friday 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Donald Walsh can be reached on 703-306-4173. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-308-0552 for regular

communications and 703-305-7687 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-308-1113.

ksi

June 9, 2003

DONALUZ WAZSH SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3800